

How
3/8/21

1. Give two reasons for the appearance of variations among the progeny formed by sexual reproduction.

Ans The two reasons are:-

* Crossing over in which DNA is exchanged between the homologous chromosomes during meiosis.

* Because of characters which differ

in the progeny & result in variation.

2. Reproduction is one of the most important characteristics of living beings. Give three reasons in support of the statement:

Ans * The reproduction process is not essential for an individual but it is very necessary for continuity of a species.

* In reproduction one generation of living organisms produce next generation, it means the parents produce off spring like themselves.

* Reproduction is means of increasing population of species. It plays an important role in the process of evolution too.

3) What is vegetative propagation? When is it used? List two uses.

Ans It is an asexual method of reproduction. In this process,

vegetative part of a plant body such as stems, leaves, bulb, tubers are used for growing new plants by cutting, grafting and layering which are identical to parents.

Uses :-

- Plants that have lost the capacity to produce seeds.
- Plants which are genetically similar enough to the parent plants.